



MISSION COVERAGE STATISTICS

## KH-4 MISSION 1109-1

4-11 MARCH 1970

Declass Review by  
NIMA/DOD

TCS-20134/70

MARCH 1970

COPY 209

12 PAGES

MCS-002/70

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## INTRODUCTION

This publication provides preliminary mission data, Greenwich Mean Time of passes, correlation of photographic coverage with WAC Chart Areas, coverage plots, and preliminary data for Mission 1109-1, dated 4-11 March 1970 (GMT).

Plot sheets are arranged by geographic areas as indicated by the index tabs. Coverage of the Eurasian land mass is divided into days to eliminate illegible overprinting.

Plots for the forward and aft cameras are portrayed as stereoscopic and/or monoscopic passes. Stereo passes will be shown with the forward-looking camera frame numbers inside the pass outline and the corresponding aft-looking camera frame numbers outside the pass outline. In the event of monoscopic coverage, only the frame numbers of the operative camera will appear. The relative location of photographs falling between the numbered frames may be approximated by interpolation.

All frames are indicated on the plot sheets, regardless of water coverage, total cloud cover, or a complete lack of imagery.

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25X1D

25X1A

PRELIMINARY MISSION DATA

Mission Number: 1109-1  
Launch Date/Time (GMT): 4 March 1970/2215  
Photo Dates (GMT): 4,5,6,7,8,9,10,11 March 1970  
Recovery Date/Time (GMT): 12 March 1970/0104Z  
Operational Photo Passes: 36  
Operational Altitude Limits: 84 - 103 Nautical Miles  
Photo Scale Range: 1:255,024 - 1:312,928  
Operational Ground Coverage (Fwd and Aft):  
a. Linear Nautical Miles: 46,008  
b. Square Nautical Miles: 5,981,040

Frames:

- a. Operational  
Fwd-Looking 2,873  
Aft-Looking 2,878
- b. Stellar 4,846
- c. Index 2,423

Operational Imagery Footage (Fwd and Aft): 14,245

Anomalies: No major anomalies occurred during this mission.

Vehicle Attitude: Normal.

Image Quality:

Main Cameras - The overall image quality of the fwd and aft looking camera records is variable. At magnifications above 25X, most imagery has an out-of-focus appearance. In addition, a three-quarter-inch wide band of out-of-focus imagery is present on frames 3 and 4 of most passes. This area is located approximately 12 inches from the take-up end of the frame and occasionally extends across the width of the format. This area is very similar to that encountered on the Mission [REDACTED] record.

25X1D

Index Camera - The index camera functioned properly throughout the mission and provided image quality comparable to that attained on recent missions.

Stellar Cameras - The stellar camera operated throughout the mission. Approximately 10 starboard and 30 port stellar images can be detected throughout the mission.

Cloud Free Coverage: Approximately 80 percent of the entire mission is cloud free.

GREENWICH MEAN TIME

These times are derived from preliminary data and cannot be verified at this time. They are carried to the nearest whole minute.

MISSION 1109-1

PASS	DATE (Z)	CAM ON		CAM OFF	
		HR (Z)	MIN (Z)	HR (Z)	MIN (Z)
3D	5 March 1970	02	38	02	39
4D	5 March 1970	04	04	04	06
5D (1)	5 March 1970	05	33	05	36
5D (2)	5 March 1970	05	41	05	42
6D (1)	5 March 1970	07	01	07	05
6D (2)	5 March 1970	07	07	07	08
7D (1)	5 March 1970	08	31	08	34
7D (2)	5 March 1970	08	35	08	38
7D (3)	5 March 1970	08	40	08	41
8D	5 March 1970	10	02	10	06
9D	5 March 1970	11	32	11	33
22D (1)	6 March 1970	06	45	06	46
22D (2)	6 March 1970	06	47	06	48
23D (1)	6 March 1970	08	12	08	13
23D (2)	6 March 1970	08	14	08	15
23D (3)	6 March 1970	08	17	08	20
24D	6 March 1970	09	48	09	48
36D	7 March 1970	03	27	03	29
38D (1)	7 March 1970	06	25	06	26
38D (2)	7 March 1970	06	26	06	27
38D (3)	7 March 1970	06	30	06	32
39D	7 March 1970	08	00	08	00
40D (1)	7 March 1970	09	24	09	26
40D (2)	7 March 1970	09	27	09	28
41D	7 March 1970	10	54	10	55
52D	8 March 1970	03	08	03	10
53D (1)	8 March 1970	04	37	04	38
53D (2)	8 March 1970	04	41	04	41
54D (1)	8 March 1970	06	07	06	08
54D (2)	8 March 1970	06	14	06	15
55D (1)	8 March 1970	07	37	07	37
55D (2)	8 March 1970	07	42	07	43
56D	8 March 1970	09	07	09	08
57D (1)	8 March 1970	10	33	10	35
57D (2)	8 March 1970	10	37	10	38
58D (1)	8 March 1970	12	05	12	05
58D (2)	8 March 1970	12	09	12	12
69D	9 March 1970	04	19	04	20
71D (1)	9 March 1970	07	13	07	17
71D (2)	9 March 1970	07	22	07	23
72D	9 March 1970	08	48	08	50
73D (1)	9 March 1970	10	14	10	15
73D (2)	9 March 1970	10	18	10	19

MISSION 1109-1 (Continued)

PASS	DATE (Z)	CAM ON		CAM OFF	
		HR (Z)	MIN (Z)	HR (Z)	MIN (Z)
74D (1)	9 March 1970	11	46	11	47
74D (2)	9 March 1970	11	50	11	53
86D	10 March 1970	05	33	05	34
87D (1)	10 March 1970	06	56	06	58
87D (2)	10 March 1970	07	05	07	06
88D	10 March 1970	08	27	08	28
89D (1)	10 March 1970	09	54	09	55
89D (2)	10 March 1970	09	57	09	59
90D (1)	10 March 1970	11	25	11	28
90D (2)	10 March 1970	11	30	11	34
91D	10 March 1970	12	54	12	56
102D (1)	11 March 1970	05	13	05	14
102D (2)	11 March 1970	05	15	05	16
105D	11 March 1970	09	39	09	41
106D	11 March 1970	11	06	11	09

25X1D

EURASIA



25X1D

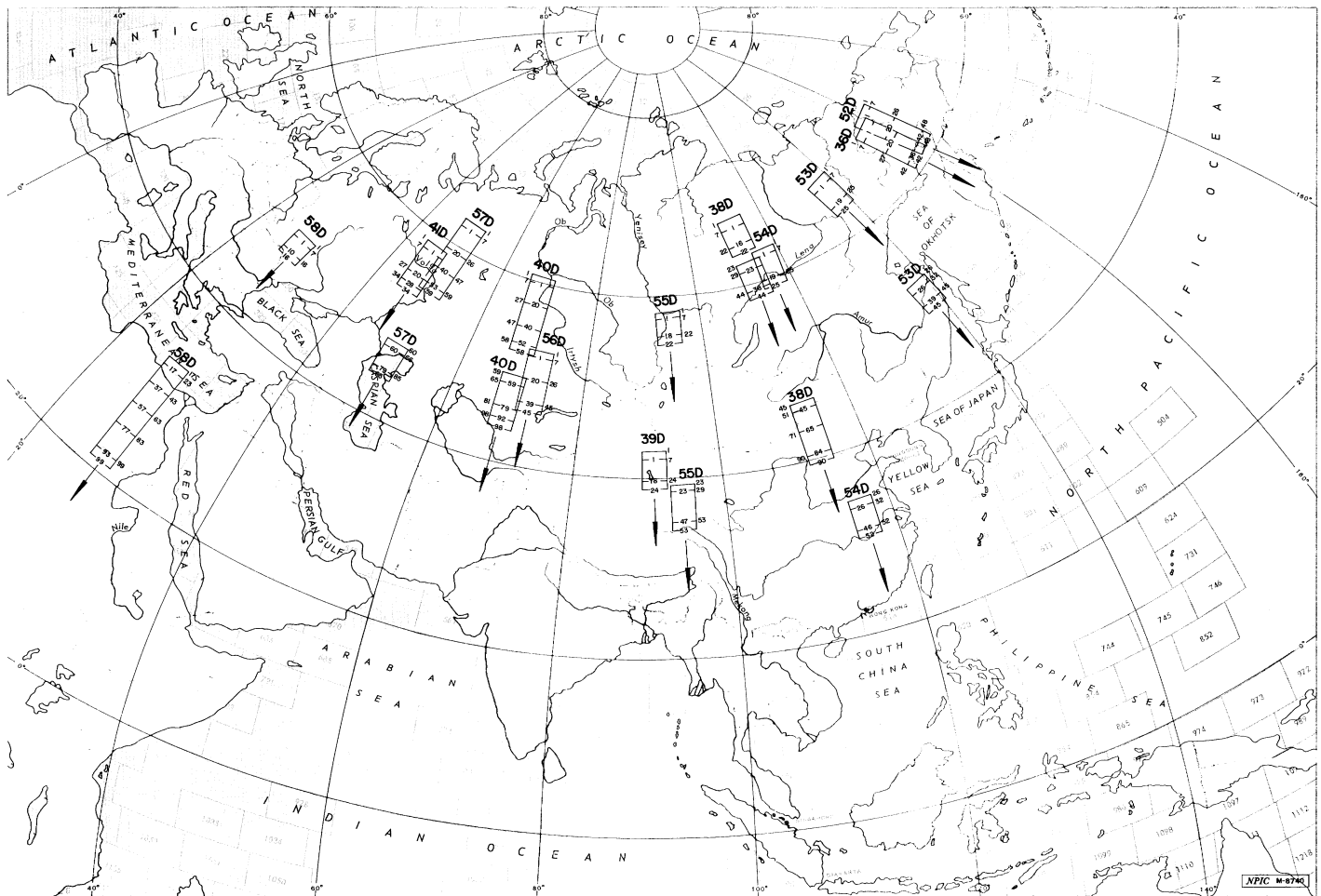
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NOTE: Forward camera frame numbers are shown inside the pass outline and aft camera frame numbers are shown outside the pass outline.

PLOT SHEET 2. Descending passes 36D, 38D-41D (7 March 1970); 52-58D (8 March 1970)

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TOP SECRET RUFF  
NO FOREIGN DISSEM

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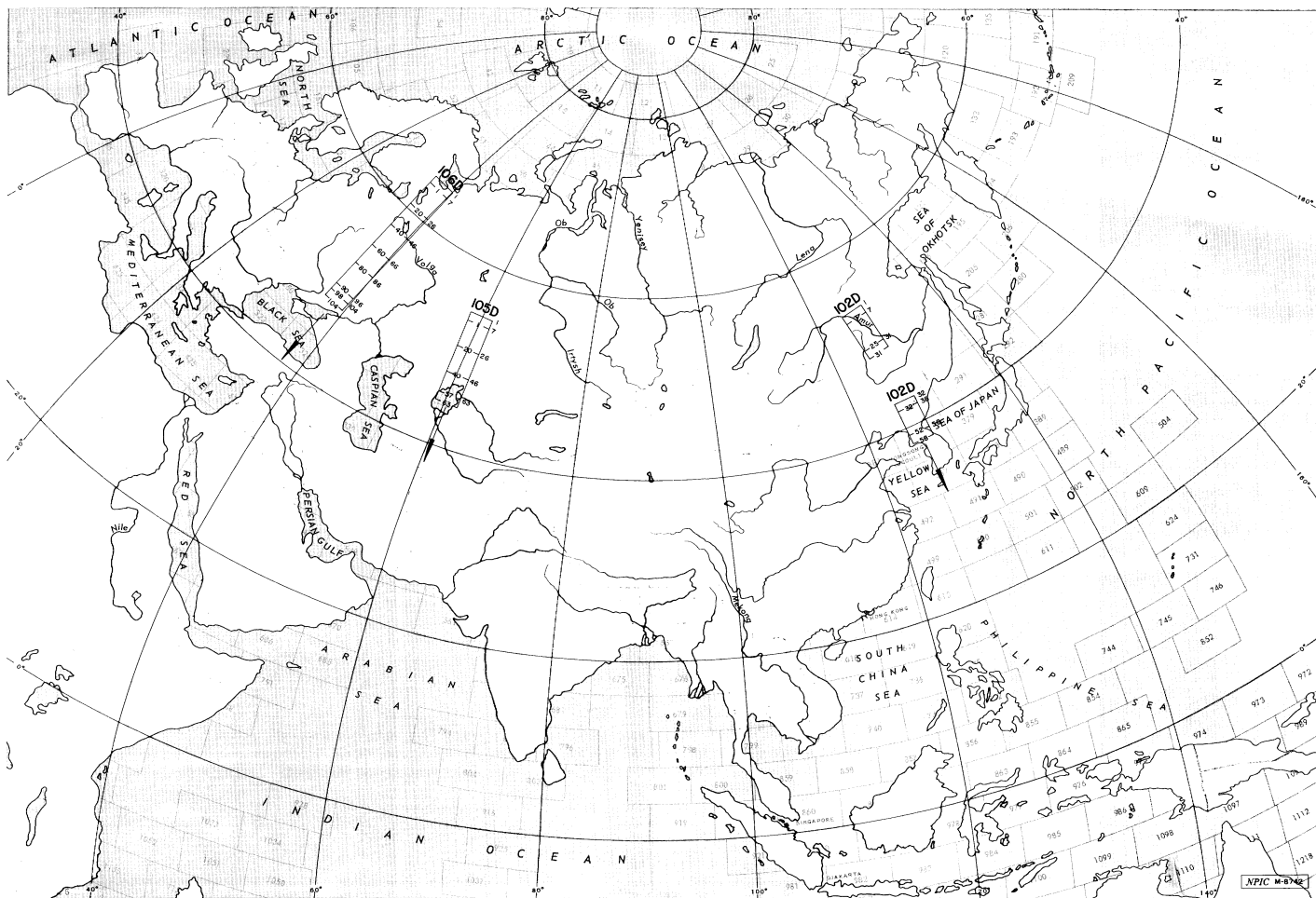
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NOTE: Forward camera frame numbers are shown inside the pass outline and aft camera frame numbers are shown outside the pass outline.

PLOT SHEET 4. Descending passes 102D, 105D, 106D (11 March 1970)

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